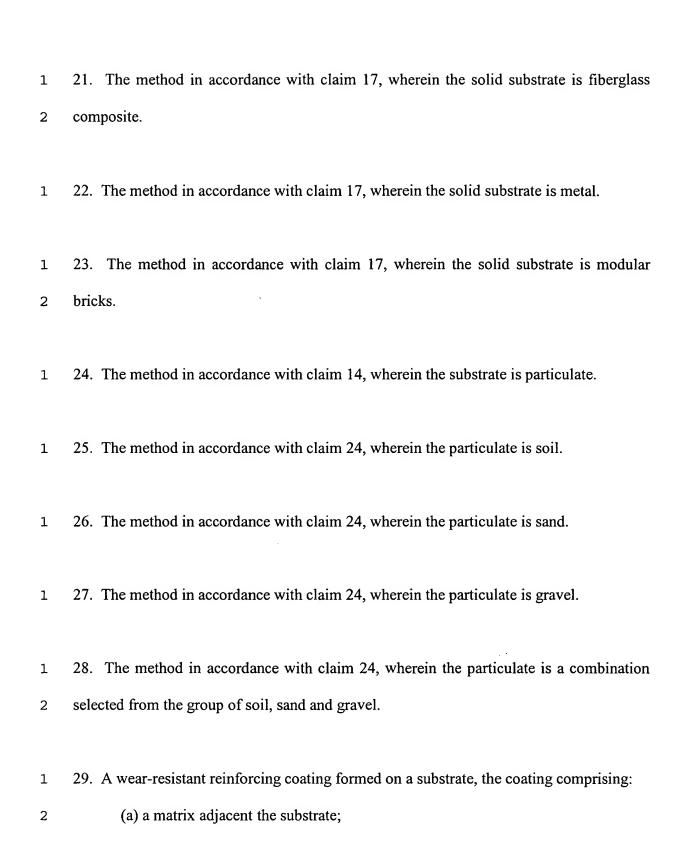
CLAIMS

- 1 1. A method of forming a wear-resistant reinforcing coating on a substrate, the method
- 2 comprising:
- 3 (a) applying a liquid matrix material to the substrate;
- 4 (b) disposing reinforcing fibers in the liquid matrix material;
- 5 (c) placing particulate in contact with the liquid matrix material on an opposite
- side of the fibers from the substrate; and
- 7 (d) hardening the liquid matrix material, thereby forming a composite of
- 8 reinforcing fibers in a matrix of the hardened liquid matrix material with the
- 9 wearing surface of particulate.
- 1 2. The method in accordance with claim 1, wherein the substrate is a solid substrate.

1	3. The method in accordance with claim 2, wherein the solid substrate is concrete.
1 2	4. The method in accordance with claim 2, wherein the solid substrate is asphalt pavement.
1	5. The method in accordance with claim 2, wherein the solid substrate is wood.
1	6. The method in accordance with claim 2, wherein the solid substrate is fiberglass composite.
1	7. The method in accordance with claim 2, wherein the solid substrate is metal.
1	8. The method in accordance with claim 2, wherein the solid substrate is modular bricks.
1	9. The method in accordance with claim 1, wherein the substrate is particulate.
1	10. The method in accordance with claim 9, wherein the particulate is soil.
1	11. The method in accordance with claim 9, wherein the particulate is sand.
1	12. The method in accordance with claim 9, wherein the particulate is gravel.

- 1 13. The method in accordance with claim 9, wherein the particulate is a combination
- 2 selected from the group of soil, sand and gravel.
- 1 14. The method in accordance with claim 1, further comprising the step of interposing a
- 2 membrane between the substrate and the liquid matrix material for preventing the liquid
- 3 matrix material from adhering substantially to the substrate.
- 1 15. The method in accordance with claim 14, wherein the membrane is plastic sheeting.
- 1 16. The method in accordance with claim 14, wherein the membrane is a release agent.
- 1 17. The method in accordance with claim 14, wherein the substrate is a solid substrate.
- 1 18. The method in accordance with claim 17, wherein the solid substrate is concrete.
- 1 19. The method in accordance with claim 17, wherein the solid substrate is asphalt
- 2 pavement.
- 1 20. The method in accordance with claim 17, wherein the solid substrate is wood.



- 3 (b) reinforcing fibers disposed in the matrix for reinforcing the matrix; and
- 4 (c) particulate adhered to the matrix on an opposite side of the fibers from the
- 5 substrate.
- 1 30. The wear-resistant reinforcing coating in accordance with claim 29, wherein the
- 2 substrate is a solid substrate.
- 1 31. The wear-resistant reinforcing coating in accordance with claim 29, wherein the
- 2 substrate is particulate.
- 1 32. The wear-resistant reinforcing coating in accordance with claim 29, further
- 2 comprising a membrane interposed between the substrate and the matrix, thereby
- 3 preventing adhesion of the matrix to the substrate.
- 1 33. The wear-resistant reinforcing coating in accordance with claim 32, wherein the
- 2 substrate is a solid substrate.
- 1 34. The wear-resistant reinforcing coating in accordance with claim 32, wherein the
- 2 substrate is particulate.

1	35. A method of forming a wear-resistant reinforcing coating on a solid substrate, the		
2	method comprising:		
3	(a) applying a liquid matrix material to the substrate;		
4	(b) interposing a membrane between the substrate and the liquid matrix material		
5	for preventing the liquid matrix material from adhering substantially to the solid		
6	substrate;		
7	(c) disposing reinforcing fibers in the liquid matrix material;		
8	(d) placing particulate in contact with the liquid matrix material on an opposite		
9	side of the fibers from the substrate; and		
10	(e) hardening the liquid matrix material, thereby forming a composite of		
11	reinforcing fibers in a matrix of the hardened liquid matrix material with the		
12	wearing surface of particulate.		
1	36. A wear-resistant reinforcing coating formed on a solid substrate, the coating		
2	comprising:		
3	(a) a matrix adjacent the substrate;		
4	(b) a membrane interposed between the substrate and the matrix, thereby		
5	preventing adhesion of the matrix to the substrate;		
6	(c) reinforcing fibers disposed in the matrix for reinforcing the matrix; and		
7	(d) particulate adhered to the matrix on an opposite side of the fibers from the		

substrate.

37. A method of forming a reinforced floor having a substrate, the method comprising: 1 (a) applying a liquid matrix material to the substrate; 2 (b) disposing reinforcing fibers in the liquid matrix material; 3 (c) hardening the liquid matrix material, thereby forming a composite of 4 5 reinforcing fibers in a matrix of hardened liquid matrix material, wherein an exposed surface of the reinforcement is unsuitable for foot traffic; and 6 (d) mounting a layer of rigid flooring material to said substrate above said 7 8 composite of reinforcing fibers, said layer of flooring material having a wearing 9 surface that is suitable for traffic. 1 38. A reinforced floor having a planar substrate, the reinforced floor comprising: (a) a hardened, planar matrix mounted to the substrate; 2 (b) reinforcing fibers disposed in the matrix; 3 (c) a planar layer of rigid flooring material mounted to the substrate above the 4 reinforcing fibers, said layer of flooring material having a planar wearing surface 5 6 that is suitable for traffic. 39. A modular flooring unit of a discrete size and weight that can be lifted by a human, 1 the flooring unit comprising: 2

(a) a planar matrix;

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(b) reinforcing fibers embedded in the matrix for reinforcing the matrix;

(c) particulate mounted to a major surface of the matrix.

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40. The flooring unit in accordance with claim 39, wherein the particulate mounted to 1 2 the matrix forms the traffic-bearing surface of the flooring unit. 41. A method of forming a modular flooring unit of a size and weight that can be lifted 1 2 by a human, the method comprising: 3 (a) placing a liquid matrix material in a receptacle; (b) disposing reinforcing fibers in the liquid matrix material; 4 (c) placing particulate in contact with the liquid matrix material on an opposite 5 side of the fibers from the substrate; and 6 (d) hardening the liquid matrix material, thereby forming a composite of 7 reinforcing fibers in a matrix of the hardened liquid matrix material with a traffic-8 bearing surface of particulate. 9 1 42. A method of forming a wear-resistant reinforcing coating on a substrate, the method 2 comprising: (a) aligning a composite with the substrate, the composite comprising a hardened 3 matrix embedded with reinforcing fibers; 4 (b) applying an adhesive between the composite and the substrate; 5

6	5	(c) forcing the composite against the substrate with the adhesive in a layer
-	7	interposed between the composite and the substrate;
8	3	(d) applying adhesive to the composite on a side of the composite opposite the
2	•	substrate;
10)	(e) placing particulate in contact with the adhesive; and

(f) hardening the adhesive, thereby forming a wearing surface of particulate.